

**In the claims:**

1. (Currently Amended) An internal combustion engine comprising:

a body;  
a shaft rotatably mounted within said body;  
a pair of pistons within said body, said pair of pistons attached to and extending from said shaft; and  
a combustion chamber formed in said shaft; ~~and~~  
~~a bearing attached to each piston by a pin~~  
said piston faces having a depression to create  
a vortex.

2. (Previously presented) The internal combustion engine of claim 1, wherein

said body has a centerline; and  
said shaft extending along said body centerline.

3. (Previously presented) The internal combustion engine of claim 1, further comprising:

a pair of cylinders;  
said pair of pistons reciprocating within said pair of cylinders; and  
a secondary combustion chamber formed between said pair of cylinders.

4. (Previously presented) The internal combustion engine of claim 1, further comprising:

an ellipsoid guide in said body; and  
said pair of pistons retained in said ellipsoid guide.

5. (Previously presented) An internal combustion engine comprising:

a body, said body having an inner surface and an outer surface;

a shaft rotatably mounted in said body;

an intake port and an exhaust port formed in said body;

a combustion chamber formed in said shaft, said combustion chamber having a bottom, a left edge and a right edge; and

a bridge extending upwardly from said combustion bottom wall to said body inner surface.

6. Cancelled

7. (Original) The internal combustion engine of claim 5, further comprising:

a sleeve positioned between said shaft and said body.

8. (Original) The internal combustion engine of claim 7 further comprising:

an O-ring between said sleeve and said shaft.

9. (Previously presented) An internal combustion engine comprising:

a body having an axis;

a shaft rotatably mounted within said body;

a pair of pistons within said body, said pair of pistons attached to and extending from said shaft;

a pair of cylinders;

said pair of pistons reciprocating within said pair of cylinders;

a pin extending from each said cylinder;

a bracket extending radially outwardly from each piston and engaging said pin,

a compression spring surrounding said pin and bearing against said bracket; and

a combustion chamber formed in said shaft.

10. (Previously presented) The internal combustion engine of claim 9, wherein

said body has a centerline; and

said shaft extending along said body centerline.

11. (Previously presented) The internal combustion engine of claim 9, further comprising:

a secondary combustion chamber formed between said pair of cylinders.

12. (Previously presented) The internal combustion engine of claim 9, further comprising:

an ellipsoid guide in said body; and

said pair of pistons retained in said ellipsoid guide.

13. (New) The internal combustion engine of claim 1, further comprising:

a baffle on the piston face to direct exhaust gases to an exhaust outlet.